KUZELEV, V.Ya.; KUZNETSOV, A.A.

A device for bending the ring of maring tolls. Politekh.obuch.
no.3:84 Mr '59.   (MIRA 12:4)

1. Srednyaya shkola No.475, Moskva.
                    (Marking devices)

KUZELKA, Vaclav; KADLEC, Jaroslaw

    Theoretical analysis of static stability of spacer grids of
the pin-type fuel element of the A-1 nuclear reactor.
Jaderna energie 9 no.11:356 '63.

    1. Statni vyzkumny ustav tepelne techniky, Praha.

SKVORTSOV, Aleksey Anatol'yevich, prof., doktor tekhn. nauk;
AKIMENKO, Anatoliy Dmitriyevich, dots., kand. tekhn. nauk,
KUZELOV, Mikhail Yakovlevich, dots.

[Heating units] Nagrevatel'nye ustroistva. Moskva, Vysshaia
shkola, 1965. 443 p.   (MIRA 18.12)

EXCERPTA MEDICA   Sec 13 Vol 11/11   Dermatolc— May 57

2426. HEGYI E., KUZELOVÁ K. and LENDVAI O. Dermatol. Kat. LFUK, a Por-
    Adne pre Kozné Chor. z. Povolania, a Závodnej Ambul. Kefovjet Závodov,
    Bratislava. *Profesionálny výskyt epidermofýcie pri práci s cirohom.
    Occupational incidence of epidermophytosis in workers
    handling broomcorn BRATISLAVSKÉ LEKÁRS.LISTY 1956, 36/11
    (677-684) Tables 1 Illus. 1
In an outbreak of corporeal epidermophytosis among workmen producing brushes
from broomcorn straw, a positive culture of Epidermophyton Kaufmann-Wolf was
obtained in 3 cases. This is the first transmission reported of epidermophytosis
by broomcorn. Preventive measures were successful.
                                                                  (XVII, 13)

KUZELOVA, K.

Effect of some disinfectants on dermatophytes. L. Chmel and K. Kuzelová (Komensk.) Univ., Bratislava, Czech.). *Bratisl. Lekarske Listy* 36, 11, 657-61(1956).— Effects are described of 7 com. disinfectants in descending order: phenylmercuric borate, (mercuric(?)) soap (17%), dimethyldodecylbenzylammonium chloride, cresol (5%) and K-soap (50%), phenol, Na p-toluenesulfonchloramide —(I), and a prepn. contg. I with azo-orange. Antimycotic activities of the individual compds. are discussed.
L. J. Uricek

2

CZECHOSLOVAKIA

RUCKL, V., MD, KUZELOVA, M., MD, and VLASAK, R., Engr [affiliation not given].

"Esters of Acetic Acid (Acetates)"

Abstract: General information on the properties, permissible concentration, uses, hygiene, estimation, toxicology, biological tests, and inspection. Fourteen references, including 6 Czech and 1 Slovak.

1/1
2050   6

KUTILOVA, Marie; VAHALA, Jan

Contribution to the differential diagnosis of vascular diseases
during work with pneumatic tools. Prac. lek. 16 no.7:328-331
S '64.

1. Oddeleni chorob z povolani (vrchniho avhata nar ulho ustavi
v Pardubicich (vedouci MUDr. M. Kutilova, Paticteri ska alin ka
fakulty vseobecneho lekarstvi Karlovy universidy v Praze (pre-
nosta prof. dr. V. Svab, DrSc.)

CZECHOSLOVAKIA   UDC   613.632:615.9(:547.322.31:547.291)

KUZELOVA, Marie; VLASAK, Rudolf; Okresni Institute of National Health, Department of Occupational Diseases (Oddeleni Chrob z Povolani OUNZ), Pardubice, Head (Vedouci) Dr M. KUZELOVA; Okresni Station of Hygiene and Epidemiology (Hygienicko-Epidemiologicka Stanice), Pardubice, Director (Reditel) Dr V. KLEINBAUER.

"Effect of Methylene Dichloride on the Health of Workers in the Production of Film Foils, and Study of Formic Acid as the Metabolite of Methylene Dichloride."

Prague, Pracovni Lekarstvi, Vol 18, No 4, May 66, pp 167 - 170

Abstract /Authors' English summary modified_7: The effect of methylene dichloride (dichloromethane) was studied in a group of 33 workers who were exposed to it for an average period of 2 years. The concentration prescribed by Czechoslovak law, that is 0.5 mg/l, was exceeded all the time; the US and British maximum of 1.75 mg/l was exceeded sometime up to 10 times. 72% of the workers complained of headaches, 50% of fatigue after work, 49% of irritation of upper respiratory tracts, 50% of neurasthenia, and 30% of digestive disorders. During the investigated period there were 3 cases of acute poisoning; all 3 recovered.
1/1   (1 Table, 8 Western, 7 Czech references. (Ms. rec. 16 Jul 65).

KIZHOVA, ...; MICHEK, Herman, ...

Follow up of the health status of subjects in contact with
dihydrodiglycol after cessation of exposure. Prac. lek.
17 no.2:44-46 Mr'65.

1. Oddeleni chorob z povolani (vedouci: MUDr. M. Kiseleva),
Interni oddeleni (vedouci: MUDr. B. Herman) Obvodni ho ustavu
narodniho zdravi v Pardubice... Pardubice adresa: Cumaiin
III, J. Ev. Purkyne 524.

VORCHAK, V.A., SHEVCHENKO, T.M., KUZMA, A.I., N--CHLUTICH, G.O.

"Fishing in the Kolkhoz "Tretiy Vyrishalnyi," ... 6 ...
kolkos u "Tretiy Vyrishalnyi" K.-Kh., Issuch. V ... Kolh. i zah.
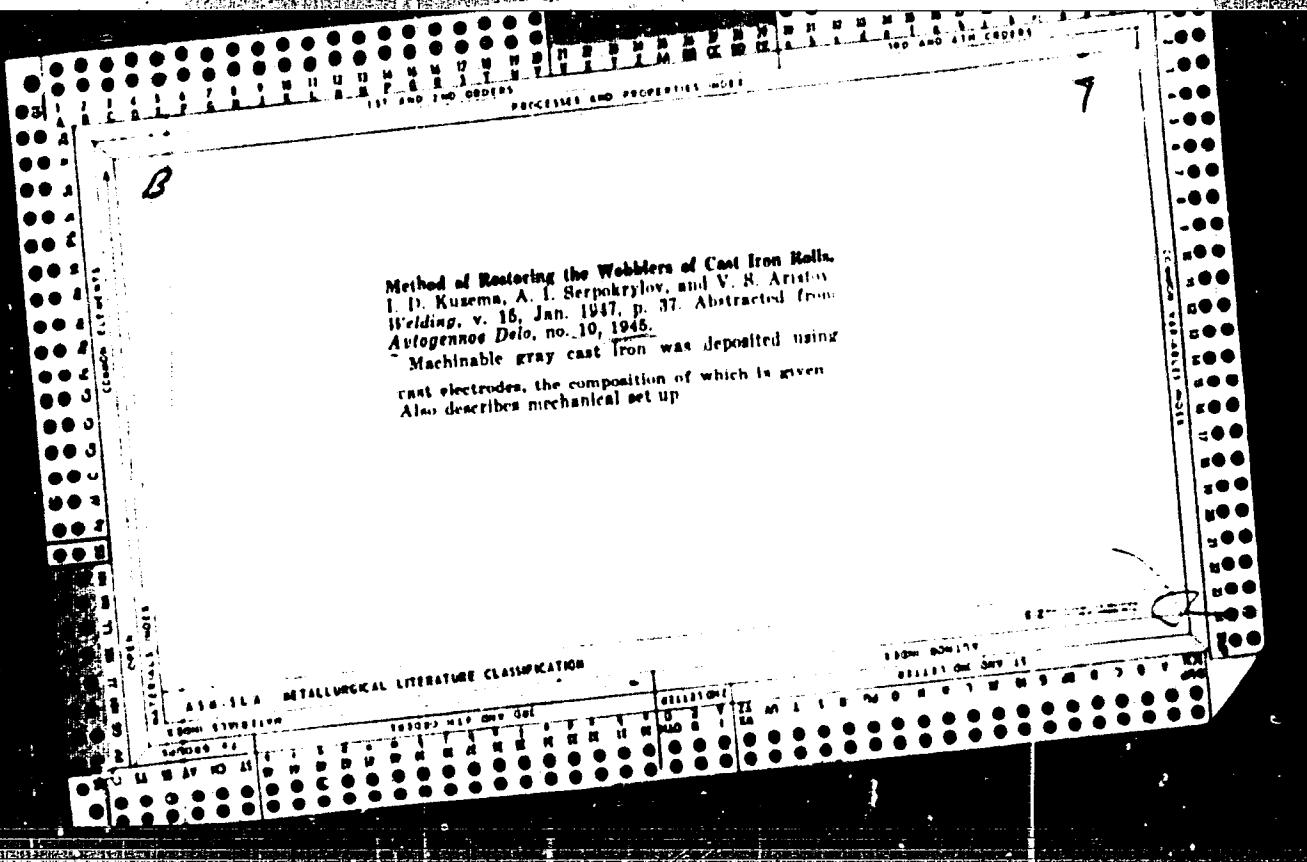Ish-zi, 1959, P 9.

KUZEMA, A.I.

Ukrainian varieties of carp. Trudy sov.Ikht.kom. no.2:65-70 '51.
(MLRA 7:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut prudovogo i
ozerno-rechnogo rybnogo khozyaystva.
(Ukraine--Carp) (Carp--Ukraine)

KUZEMA, D.D. (Poltava)

> Device for demonstrating the law of Boyle-Mariotte. Fiz. v shkole
> 20 no.6:74 N-D '60.   (MIRA 14:2)
>   (Gases)   (Physics—Study and teaching)

Method of Restoring the Wobblers of Cast Iron Rolls.
I. D. Kuzema, A. I. Serpokrylov, and V. S. Aristov.
Welding, v. 16, Jan. 1947, p. 37. Abstracted from
Avtogennoe Delo, no. 10, 1946.
Machinable gray cast iron was deposited using
cast electrodes, the composition of which is given.
Also describes mechanical set up

Kuzema, I. D.

"Determination of the Stress During Wire Drawing", Stal', 1946, Nr 2, pp 96-99.

PA 15T32

KUZEMA, I. D.

USSR/Steel, Carbon   May 1947
    Metallurgy

"Regulation for Rolling Carbon Steel Plates," I. D.
Kuzema, Factory imeni Il'yich, 3 pp

"Stal'" Vol VII, No 5

For high-quality carbon steel it is necessary to
regulate the amount of carbon in the steel with
reference to the thickness of the plates. Degree of
pressure under temperature of final rolling has great
effect on the plates.

18T32

KUZEMA, I. D.

IA 41T29

USSR/Engineering
    Metallurgy
    Steel Ingots

Jan 1948

"Rational Shapes for Slabs," I. D. Kuzema, Engr,
Works imeni Il'ich, 5 pp

"Stal'" No 1

Offers methods for making slabs in new sizes. Claims
that this must be done to decrease loss of metal dur-
ing the cutting of plates. Claims that, for the most
part, this can be accomplished by use of Convexo-
concave wide and straight (or lightly convexo-con-
cave) thin facets. Waste can also be cut down by
the use of slabs of the proper width.

41T29

KUZEMA, I.; GAVRILENKO, M.

Rolling (Metalwork)

Rolling metal with negative tolerance. Za ekon. mat. no. 1, 1952.

KUZE.A, I.D., inzh.

Irregular deformation. Obr.met.davl. no.3:33-48 '54.

(MIRA 12:10)

(Deformations (Mechanics)) (Forgings)

KUZEMA, I.D., inzhener; PETIN, A.G, inzhener

Increasing the fatigue resistance of blooming mill rolls. Stal' 15 no.6:563-564 Je '55.   (MIRA 8:8)
    (Rolling mills)

KUZEMA, I.D., inzhener.

Potentialities for an increased output of three-high sheet mills.
Stal' 16 no.4:331-333 Ap '56.   (MIRA 9:9)
                    (Rolling mills)

KUZEMA, I. D. Cand Tech Sci -- (diss) "Inequality of the deformation associated with caused by pressing and laminating". Mos, 1957. 13 pp23 cm. (Min of

Ship Building USSR. Central Order of Lenin Sci Res Inst), (KL, 10-57, 103),

AUTHOR: Kuzema, I.D. (Engineer)   133-6-18/33

TITLE: A rational method of choosing the weight of slabs for the
         production of plate. (Ratsional'nyy metod fabrikatsii
         listovykh slitkov).

PERIODICAL: "Stal'" (Steel), 1957, No.6, pp.541-543 (USSR).

ABSTRACT: At present on all metallurgical works a constant manu-
         facturing coefficient for slabs for each kind of steel is
         used. This is calculated on the basis of mean total metal
         losses for cut off edges and scaling of metal, without tak-
         ing into consideration required dimensions of rolled plates.
         The author derived formulae incorporating the dimensions
         of plates for calculating the manufacturing coefficients
         and relative losses of metal on cut off side edges and
         head and tail ends of a plate (with specimens for techno-
         logical tests cut off from one or both ends of a plate).
         The comparison of the dependence of the actual losses of
         metal in cut off side edges on the width of plates with
         those calculated from the proposed formulae as well as
         similar comparison of the dependence of metal losses for
         test strips on the length of the plate are given in Figs.2
         and 3 respectively. The dependence of manufacturing
         coefficients on the required width and length of plates

Card 1/2

A rational method of choosing the weight of slabs for the
production of plate. (Cont.)   133-6-18/33

for steel CXЛ-1 is given in Fig.4. It is pointed out that
the use of the method proposed produced a saving of metal
of about 3%. E.N.Grishina participated in the above work.

There are 4 figures.

AVAILABLE: Library of Congress
Card 2/2

PHASE I BOOK EXPLOITATION   SOV/3226

Mezhvuzovskaya nauchno-tekhnicheskaya konferentsiya na temu: "Sovremennye dostizheniya prokatnogo proizvodstva."

Trudy...(Transactions of the Intercollegiate Scientific and Technical Conference on Recent Achievements in the Rolling Industry) Leningrad, 1958. 251 p. 1,000 copies printed.

Sponsoring Agency: Leningradskiy politekhnicheskiy institut im. M.I. Kalinina, Nauchno-tekhnicheskoye obshchestvo mashinostroiteley, Leningradskoye otdeleniye, and Nauchno-tekhnicheskoye obshchestvo metallurgov, Leningradskoye otdeleniye.

Resp. Ed.: V.S. Smirnov, Doctor of Technical Sciences, Professor; Ed.: N.N. Pavlov.

PURPOSE: These proceedings of the conference are intended for specialists in the rolling industry.

COVERAGE: The articles of this collection cover various theoretical and practical problems of rolling, such as: pressure, spread, efficiency of rolls, determination of deformation, forces required, pass design, optimum conditions for rolling, experiences of various plants, modernization of equipment, aluminum-clad steel, and rolling of nonferrous metals. No personalities are mentioned. References appear after each article.

Benyakovskiy, M.A. [Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (Urals Scientific Research Institute of Ferrous Metals), Sverdlovsk] Forces of Deformation of Metal and Automation of Band Thickness Control in Cold Rolling   184

Meleshko, V.I., and V.N. Safyan, [Institut chernoy metallurgii AN USSR (Institute of Ferrous Metallurgy, AS UkrSSR)] Investigation of Energy Consumption, and Action of Force in a Continuous Hot-rolling Sheet Mill   197

Kumma, L.D. [Zavod imeni Il'icha (Plant im. Il'ich)] Relation Between Geometric and Weight Tolerances of Plate Steel   208

Bogoyavlenskiy, K.N. [Leningradskiy politekhnicheskiy institut im. M.I. Kalinina (Leningrad Polytechnical Institute im. M.I. Kalinin)] Bending Forces in a Structural Mill   214

Chekmarev, A.P., Ya.L. Vatkin, and D.N. Litinskiy, [Dnepropetrovskiy metallurgicheskiy institut] (Dnepropetrovsk Metallurgical Institute)] Wall Thickness Variation of Large Diameter Pipe   223

SO'//137-59-1-1559

Translation from: Referativnyy zhurnal. Metallurgiya. 1959. Nr 1, p 208 (USSR)

AUTHOR: Kuzema, I. D.

TITLE: The Relationship Between the Geometrical and Weight Tolerances for Heavy Sheet Steel (Svyaz mezhdu geometr cheskim vesovymi dopuskami v tolstolistovoy stal···

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferents i na temu Sovrem dostizh. prokatn proiz-va . Leningrad. 1958, pp 208-213

ABSTRACT: A presentation of the derivation of a mathematical relationship between the geometrical allowance in thickness Δ on the edges of the steel sheets and the weight tolerance. The relationship is expressed by the formula a = Δ, - 2/3 (Δ_{max} - Δ_{min}) where Δ, is the nominal thickness of the sheet and Δ_{max} - Δ_{min} is the sum of the wear and the deflection of the rolls. For sheets that are rolled with negative weight allowances

$\Delta_{max} - \Delta_{min} = 0.2 + 0.4 (w-1)$ and for sheets being rolled in accordance with their theoretical weight Δ_{max} - Δ_{min} = 0.2 + 0.6 (w-1) where w is the width of the sheets in meters. An example illustrates

Card 1/2   the practical application of these formulae to the problem of

SOV/137-59-1-1559

The Relationship Between the Geometrical and Weight Tolerances (cont)

regulation of tolerances for shipbuilding steel and for sheet steel supplied by its theoretical weight.

M Ts

Card 2/2

AUTHOR: Kuzema, I. D. (Cand.Tech.Science)

TITLE: Mastering of Rolling Plates According to the Theoretical
Weight (Osvoyeniye prokatki tolstykh listov po teoretichesk-
omu vesu)

PERIODICAL: Stal', 1958, Nr 9, pp 817-820 (USSR)

ABSTRACT: In the usual rolling of plates, metal losses caused by
a higher weight of the plates than the theoretical one are
of the order of 1.5-2%. Therefore, mastering of rolling
practice according to the theoretical weight will give a sav-
ing of metal. In the paper the introduction of this type of
rolling practice in some works (not specified) is discussed
It is pointed out that for the purpose it is necessary to
establish internal (for the works) rolling tolerances (cal-
culated by the method outlined in the paper), rational roll
design (so that the difference between maximum and minimum
thickness caused by roll wear and deflection was at a minimum)
and a regular control of the plate thickness.There are 5 figures.

Card 1/2

SOV/133/58-9-14/29

AUTHOR: L'vovskiy, Sh. A. (Engineer)

TITLE: Determination of the Machine Time During Rolling Sheets with Doubling (Opredeleniye mashinnogo vremeni prokatki tonkikh listov s dublirovaniyem)

PERIODICAL: Stal', 1958, Nr 9, pp 821-823 (USSR)

ABSTRACT: An analytical method for calculating the mean coefficient of elongation and machine time during rolling of sheets with doubling is discussed. A formula for calculating machine time (Eq.19) is given. There is 1 table.

ASSOCIATION: Nizhne-Tagil'skiy metallurgicheskiy kombinat (Nizhniy Tagil Metallurgical Combine)

Card 2/2

25(2)   SOV/148-59-2-19/24

AUTHORS: Kirillov, B.S., Kapustina, M.I., and Kuzema I.D., Candidates of
              Technical Sciences; Danilov, V.D., and Savchenko, A.M., Engineers

TITLE: Investigation of the Crankshaft in Steam-Driven Rolling Mills
              (Issledovaniye kolenchatogo vala v sisteme parovogo privoda
              prokatnogo stana)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya,
              1959, Nr 2, pp 143-151 (USSR)

ABSTRACT: In order to complete existing data the authors present informa-
              tion on the fatigue strength of crankshafts in steam driven
              rolling mills. Computations of the fatigue strength were
              preceded by dynamic analyses, including the character of stress
              and drive dynamics as well as by power analyses of the machine.
              The information includes recommendations on the computation of
              fatigue strength for multi-cranked shafts with a low revolution
              rate and subjected to no impact load.
Card 1/2   There are 2 oscillograms, 1 photo, 6 sets of graphs and 1 table.

Investigation of the Crankshaft in Steam-Driven Rolling Mills

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute), Kafedra mekhanicheskogo oborudovaniya metallurgicheskikh zavodov (Chair of Mechanical Equipment of Metallurgical Plants)

SUBMITTED: March 19, 1959

Card 2/2

KUZEMA, I.D., kand. tekhn. nauk

Effect of chemical composition and residual stress on the strength
of hot-rolled sheet steel. Izv. vys. ucheb. zav.; chern. met. 2
no.3:85-92 Mr '59.   (MIRA 12:7)

1.Zhdanovskiy metallurgicheskiy zavod im. Il'icha. Rekomendovana
kafedroy obrabotki metallov davleniyem Zhdanovskogo metallurgicheskogo
instituta.
                        (Sheet steel--Testing)

18.5100,25.2000

SOV/148-59-9-9/22

AUTHORS: Kapustina, M. I., Kuzema, I. D., Kirillov, B. S. (Candidates of Technical Sciences), Danilov, V. D., Savchenko, A. M. (Engineers)

TITLE: Development of Rational Rates of Rolling Ingots on a Roughing Mill

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1959, Nr 9, pp 95-100 (USSR)

ABSTRACT: A study of the work of the roughing mill at the shape rolling shops of the Plant imeni Il'yicha (Sortoprokatnyy tsekh zavoda imeni Il'yicha) for the purpose of eliminating the breakdowns of the main steam engine crankshaft and for establishing the optimum method of rolling the ingots on the existing roughing mill. B. N. Poydyshev, V. N. Demochko, L. N. Kurkin, Ye. N. Grishina, V. T. Demchenko, Ts. M. Rakhlin, A. V. Chechnev, P. P. Tokarev, N. M. Simonov, and V. M. Buynevich participated in the work. The investigated roughing mill consists of one two-high reversing 830-stand designated for

Card 1/5

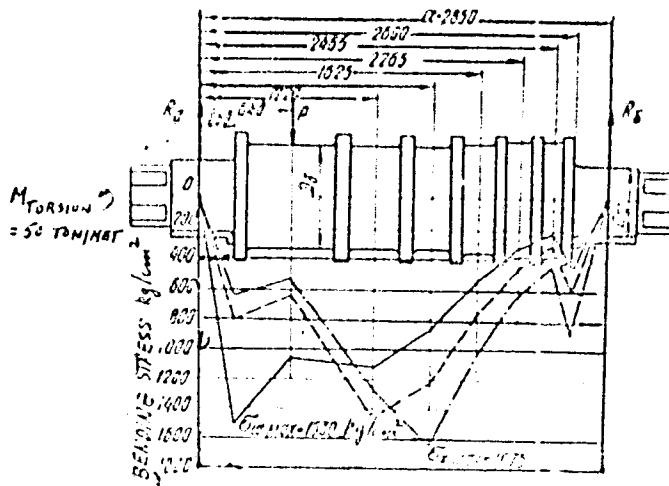Development of Rational Rates of Rolling
Ingots on a Roughing Mill

SOV/148-59-9-5/22

rolling slabs. The rolls are made from 50HN steel
(chromium-nickel steel: 0.45% C; 0.60% Mn; 0.17% Si;
0.040% P; 0.040% S; 0.45% Cr; 2.00% Ni). The power
plant consists of one simple, single expansion,
4,500 HP, 3 cylinder, compound, horizontal, reversing
steam engine, working at 6 to 7 atmospheres pressure
and a gear transmission. During 1955-1957 there were
six crankshaft breakdowns. The intervals between
the breakdowns were from 2 to 18 months. The authors
describe the methods of investigation and the results
of same, with reference to the previous work of
T. M. Golubev, L. N. Soroko, and others, who investi-
gated the power characteristics of the blooming mill
at the Kuznetsk Metallurgical Combine (Kuznetskiy
metallurgicheskiy kombinat) (Golubev, T. M., Soroko,
L. N., Zaykov, M. A., Kaftanov, M. P., et al., Stal',
Nr 2, 1957). In the present work the strength cal-
culations of the rolls and the crankshaft of the steam
engine showed the reasons for their breakdown. The
calculation of the roll showed (see Fig. 1) that the
weakest place of the rolls is in the second roll pass,

Card 2/

Development of Rational Rates of Rolling   77133
Ingots on a Roughing Mill   SOV/148-59-4-5/22

Fig. 4.   The diagram of
bending stresses in
the roll's barrel
(after remachining). ___
1st Pass, P_I = 670 ton; _ _ _
2nd Pass, P_{II} = 435 ton;
          3rd Pass,
— . —
P_{III} = 525 ton.

Card 3/5

Development of Rational Rates of Rolling
Ingots on a Roughing Mill

where the highest stresses during rolling of metal
in the first and the second roll passes take place
(up to σ = 1,480 kg/cm²). The breakdowns of the
lower roll are explained by the fatigue rupture of
the lower roll which transmits the whole torsion
moment of the second roll pass. The ragging of the
second roll pass surface and the swapping of the rolls
position (after the second remachining) proved to be
the effective means of preventing the breakdowns of
the lower roll by the second roll pass. The crank-
shaft calculations and the metallographic investiga-
tion showed that the cause of its breakdowns is the
insufficient fatigue strength of the metal of the
first crank arm. It is recommended that the first
crank arm be manufactured from the alloy steel with
tensile strength of about 90 kg/mm², which suggests
the use of chromium-nickel-molybdenum steel 3ХН3МА
(0.29% C; 0.50% Mn; 0.17% Si; 0.03% P; 0.030% S;
0.80% Cr; 2.5% Ni; and 0.20 to 0.30% Mo. There are
4 figures; 2 tables; and 5 Soviet references.

Card 4/5

Development of Rational Rates of Rolling
Ingots on a Roughing Mill

ASSOCIATION: Zhdanov Metallurgical Institute (Zhdanovskiy metallurgicheskiy institut)

SUBMITTED: June 11, 1959

Card 5/5

KAPUSTINA, M.I., kand.tekhn.nauk; KUZEMA, I.D., kand.tekhn.nauk,
KIRILLOV, B.S., kand.tekhn.nauk; DANILOV, V.D., inzh., SAVCHENKO,
A.M., inzh.

Developing efficient conditions of ingot rolling on cogging mills.
Zool.zhur. 38 no.1:95-100 Ja '59.   (MIRA 13:4)

1. Zhdanovskiy metallurgicheckiy institut.
        (Rolling (Metalwork)

S/137/62/000/002/050/144
A006/A101

AUTHORS: Kapustina, M. I., Kuzema, I. D., Savchenko, A. M., Chiryayev, V. I.,
             Goltvenko, A. I., Grishina, Ye. N.

TITLE: A rapid method of calculating the efficiency of three-high sheet
             rolling mills

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 18, abstract 2D8,
             ("Sb.nauchn. tr. Zhdanovsk. metallurg. in-t", 1960, no. 5, 13 - 108)

TEXT: Calculation data were checked by the oscillographic timing of a mill
operation for all the brigades when rolling the main conventional sheet types of
the mill assortments. A method was developed for calculating the efficiency of
three-high mills on the basis of an analysis of reduction conditions, and force
and power indices of rolling. The theoretical calculation of the efficiency of
sheet rolling mills is given. The problem is discussed how to check the mill
amount of work.

                                                      N. Yudin

[Abstracter's note: Complete translation]

Card 1/1

KUZEMA, I.D., kand.tekhn.nauk; PROKHO.OV, A.V.

Mechanical and thermomechanical hardening of low-alloy
and low-carbon steel. Stal' 20 no.8:745-750 Ag '60.
(MIRA 13:7)

1. Zavod imeni Il'icha.
(Steel alloys—Cold working)

S/133/62/000/004/0C2/008
A054/A127

AUTHORS: Kuzema, I.D.; Yefimov, V.A.; Chernyshev, I.S.; Grebenyuk, V.P.;
                Oleshkevich, T.I.;

TITLE: Selecting the parameters of large-sized slabs

PERIODICAL: Stal', no. 4, 1962, 312 - 313

TEXT: The geometry of slabs is characterized by the width-to-thickness
ratio (k) and the length-to-width ratio (k_1). A k-ratio above 2 causes cracks
in the slabs and renders their finishing more difficult. When forming slabs
with a k = 1,72ratio these drawbacks are eliminated, but the slabs will be far
too thick, while, moreover other difficulties arise: more passes are required
in rolling, more metal is lost in cutting off the edges, etc. Tests to cast large-
-sized slabs with a k-ratio above 2 without cracks were carried out by imparting
a wavy shape to the side-wall surfaces, while the effect of the mold shape on the
solidifying skin was also studied. In slabs with a high k (width-to-thickness)
ratio deep longitudinal cracks are mainly caused by stresses developing in the
skin prior to its separation from the mold-wall. The skin is also subjected to
bending moments. The higher the k-value, the greater the stresses working in

Card 1/2

Selecting the parameters....

the skin. The bending moments, however, could be reduced considerably by giving the broad side of the slab a wavy shape. In that case the shrinkage of the skin takes place progressively, starting from the angles to the center. If several waves are formed on the broad side of a slab with a high k-value the gap formation is slowed down and the thin skin plays the part of a reinforcing continuous beam. Slabs, 5 - 7 tons in weight were tested, with width-to-thickness ratios of 2.3, 2.31 and 2.2. The best results were obtained with slabs on whose sides the curvature radius of the wave crest was not more than 5 mm. In another test series 11 - 15-ton slabs were tested with 5 - 5 waves on their broad sides and satisfactory crackfree surfaces were obtained in 70% of the output. By improving the geometry of the waves still further and increasing their depth to 24 mm the crack formation could be eliminated completely. When applying waves of the required length and depth and sufficiently acute angles, it is possible to cast large-sized ingots with a width-to-thickness ratio of more than 2.2. There are 5 figures.

ASSOCIATION: Zavod im. Il'icha (Plant im. Il'ich) and Institut gaza AN UkrSSR
                (Institute of Gas(es) of the Academy of Sciences UkrSSR)

Card 2/2

KAZANTSEV, I.G.; KUZNETSOV, A.F.; PRESNYAKOV, V.M.; MOLONOV, G.D.;
KUZEMA, I.D.; CHERNYSHEV, I.S.; OLESHKEVICH, T.I.; KISSEL', N.V.;
ANTOKHIN, N.T.; ROYANOV, V.V.

Manufacture of very thick plate from capped steel. Izv. vys. ucheb.
zav.; chern. met. 6 no.6:49-50 '63.   (MIRA 16:8)

1. Zhdanovskiy metallurgicheskiy institut i zavod im. Il'icha.
          (Steel ingots) (Rolling (Metalwork)--Quality control)

YEFIMOV, V.A., doktor tekhn. nauk; KUZEMA, I.D., kand. tekhn. nauk;
    ZHIGULA, A.V., inzh.; SAPKO, V.N., inzh.; KISSEL', N.N.,
    inzh.; CHERNYSHEV, I.S., inzh.; ZARUBIN, N.G., inzh.;
    STRYAPIN, I.Ya., inzh.; OLESHKEVICH, T.I., inzh.; SONIN, G.V.,
    inzh.; PUKALOV, V.P., inzh.

Rapid top pouring of rimmed steel from ladles with a
capacity from 350 to 480 tons. Stal' 24 no.1:30-32   Ja '64.
                                    (MIRA 17:2)

KUZMA, I.I.

... the shape of slab ingots on the basis of determining the longitudinal and transverse nonuniformity of their deformation. Izv.vys.ucheb.zav.; Chern.met. 8 no.8:88-   126.

(MIRA 18:8)

1. Zavod im. Il'icha.

KUZEMA, I.D., kand. tekhn. nauk; PROKHOROV, P.A., MELCTR.., ...5, T.M.;
    RUSETSKAYA, M.I.; BELOUSOVA, N.G.

    Characteristics of the production of sheet for extra large boilers.
    Met. i gornorud. prom. no.5:38-40 S-O '64.   (MIRA 18:7)

ACC NR: AP6006334   SOURCE CODE: UR/0413/66/000/002/0057/0057

AUTHOR: Paton, B. Ye.; Dudko, D. A.; Medovar, B. I.; Lutsyuk-Khudin, V. A.; Savenko, V. Ya.; Kumysh, I. I.; Andrianov, G. G.; Karpov, V. F.; Dovzhenko, N. F.; Antonets, D. P.; Kuzema, I. D.

ORG: none

TITLE: Method of producing composite rolled stock. Class 21, No. 177985 [announced by Electric Welding Institute im. Ye. O. Paton (Institut Elektrosvarki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1965, 57

TOPIC TAGS: welding, metal rolling, sandwich rolling

ABSTRACT: An Author Certificate has been issued for a method of producing composite rolled metal by using a billet consisting of ingots or plates welded together by electroslag welding. To save on stainless steel, lower the thickness of the clad layer, and simplify the welding procedure, it is suggested that the process be begun with a heterogeneous plate made from prewelded and prerolled smaller billets having been a carbon steel and clad layer, and then adding additional ingots or plates to produce sandwich rolled stock.   [LD]

SUB CODE: 13/   SUBM DATE: 11Apr63   ORIG: none/   OTH REF: none/

Card 1/1   UDC: 621.791.793:621.771.2-419.5

I,   EWT(m)/EWT(L)/T/STI/EWP(k)   IJP(c)   JD/HW

ACC NR: AP6029871   SOURCE CODE: UR/0413/66/000/015/0022/0022

INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov,
V. D.; Savel'yev, G. V.; Goncharov, F. I.; Plotnikov, P. I.; Roshkov, S. A.;
Kustobayev, G. G.; Polushkin, V. P.; Arkhipov, V. M.; Uziyenko, A. M.; Kolov, M. I.;
Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.;
Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poylyshev, B. N.;
Shternov, M. M.

ORG: none

TITLE: Method of making high-strength steel plates by pack rolling. Class 7,
No. 184232

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22

TOPIC TAGS: high strength steel, high strength steel plate, high strength
steel sheet, steel plate rolling, steel sheet rolling

ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength
steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel
envelope. The method includes cleaning, coating, making of the pack, heating,
rolling, and subsequent heat treatment. To ensure an accurate thickness of the plates

Card 1/2   UDC: 621.771.23

I. 44005-66

ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope
must be at least 0.6 of the total initial thickness of the high-strength plates
of the pack.   [ND]

SUB CODE: 13/   SUBM DATE: 18Jun64/   ATD PRESS: 5070

Card 2/2   blg

KUZEMA, V.G.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 27-40, 25 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Gareyev, E.Z. Arakelyan, U.G. Bychkova, N.F. Kolenko, A.Z. Lashin, M.I. Kuzema, V.G. Kryachkov, P.Ya.	"Michurinian Varieties of Fruit Trees in Kirgiziya"	Kirgiz Affiliate, Academy of Sciences USSR

SO: W-30604, 7 July 1954

ROGOV, V. S., OLEYNA, Yu...

Apparatus for cyclic tensile testing. Zav. lab. 30 no.5.611-
612 '64.   (MIRA 17:5)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.

FRELIC..., ..Ba., ..., A..P.; ....

    C........... of cyclohexane in the ....
    .... no.5:687-690   ...0 '62.

    1. Institut organiceskay ...... Imeni N.D.Zel..............

SOKOL'SKAYA, A.M.; KUZLMBAYEV, K.K.

Hydrogenation of phenylacetylene. Vest. AN Kazakh. SSR 20 no.7:
45-50 Jl '64.   (MIRA 17:11)

KUSEMBAYEV, K.K.; SOKOL'SKAYA, A.M.

Chromatographic separation of phenylacetylene and products of its
hydrogenation. Zav. lab. 30 no.9:1077 '64.   (MIRA 18:3)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova.

Agriculture -Economic Aspects

Results of enlarging of collective farms in the Kazakh S.S.R., Vop. ekon. No. 2, F '52.

Monthly List of Russian Accessions, Library of Congress, March 1952.   Unclassified.

1. KUZEMIN, I.N., Eng.

2. USSR (600)

4. Electric Lines

7. Continuous operation system for assembling electric transmission line.
    Biul. stroi,tekh. 9 No. 19, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KUZEMIN, I.N., inzh.

Kremenchug Hydroelectric Power Station on the Dnieper. Gidr. stroi.
30 no.11:6-15 N '60.   (MIRA 13:10)
                (Kremenchug Hydroelectric Power Station)

KUZ&MIN, I.N., inzh.

Installation and operation of basic equipment at the Kromenchug
Hydroelectric Power Station. Gidr. stroi. 31 no. 12:56-61 D '61.
(MIRA 14:4)
(Kremenchug Hydroelectric Power Station—Equipment and supplies)

KUZEMIN, I.N., inzh.; STROGANOV, Ye.M., inzh.

Preparation for starting and temporary operation of the Kremenchug Hydroelectric Power Station. Energ.stroi. no.23:101-106 '6..
(MIRA 15:1)

1. Direktor Kremenchugskoy gidroelektrostantsii (for Kuzemin).
2. Glavnyy inzh. direktsii Kremenchugskoy gidroelektrostantsi.
(for Stroganov).
(Kremenchug Hydroelectric Power Station)

KUZEMIN, I.N.

Efficiency promotion at the Kremenchug Hydroelectric Power
Station. Gidr. stroi. 33 no.11:44-47 N '62.   (MIRA 16:1)

1. Direktor Kremenchugskoy gidroelektrostantsii.
(Kremenchug Hydroelectric Power Station--Technological innovations)

BALATS, D.S., GREBENNIK, I.I.; KUZEMKIN, V.I.

Machine for bending clamps. Mashinostroitel' no.7:34 Jl '59.
(MIRA 12:11)

(Bending machines)

KUZEMKINA, Ia.N.

Composition and textural characteristics of bears in Mesozoic
bauxites in Kustanay Province. Geol. rud. mestorozh. no.3:96-10"
My-Je '60.   (MIRA 13:7)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR, Moskva.
                    (Kustanay Province—Bauxite)

KUZEMKINA, Ye.N.

      Concerning some secondary processes in Mesozoic bauxites in
the northwestern Turgay Gates. Kora vyvetr. no.4:195-209
'62.
                                (MIRA 15:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR.
                    (Turgay Gates—Bauxite)

MIRA, O.P. [Mehra, O.P.]; DZHEKSON, M.L. [Jackson, M.L.];
KUZEMKINA, Ye.N. [translator]

Removal of iron oxides from soils and clays by means of the
dithionite-citric acid system with the buffer solution of sodium
bicarbonate. Kora vyvetr. no.5:389-397 '63.   (MIRA 16:7)

(Mineralogical chemistry)

KUZLMKINA, Ye.N.

Supergenic millerite from the serpentinite weathering surface.
Kora vyvetr. no.9:29-33 '65.

Nickel-bearing weathering surface on the ultrabasites of the
Kola Massif (Northern Urals). Ibid.:56-78

(MIRA 19:1)

BOROVSKIY, P. V.

PHASE I BOOK EXPLOITATION   SOV/6206

Konferentsiya po teorii plastin i obolochek. Kazan', 1960.

Trudy Konferentsii po teorii plastin i obolochek, 24-29 oktyabrya
1960. (Transactions of the Conference on the Theory of Plates
and Shells Held in Kazan', 24 to 29 October 1960). Kazan',
[Izd-vo Kazanskogo gosudarstvennogo universiteta] 1961. 426 p.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Kazanskiy
gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina.

Editorial Board: Kh. M. Mushtari, Editor; F. S. Isanbayeva, Secretary;
N. A. Alumyae, V. V. Bolotin, A. S. Vol'mir, N. S. Ganiyev,
A. L. Gol'denveyzer, N. A. Kil'chevskiy, M. S. Kornishin,
A. I. Lur'ye, G. N. Savin, A. V. Sachenkov, I. V. Svirskiy,
R. G. Surkin, and A. P. Filippov. Ed.: V. I. Aleksagin;
Tech. Ed.: Yu. P. Semenov.

PURPOSE: The collection of articles is intended for scientists and
engineers who are interested in the analysis of strength and
stability of shells.

Card 1/14

Transactions of the Conference (Cont.)   SOV/6206   75

COVERAGE: The book is a collection of articles delivered at the
    Conference on Plates and Shells held in Kazan' from 24 to 29
    October 1960. The articles deal with the mathematical theory
    of plates and shells and its application to the solution, in
    both linear and nonlinear formulations, of problems of bending,
    static and dynamic stability, and vibration of regular and
    sandwich plates and shells of various shapes under various
    loadings in the elastic and plastic regions. Analysis is made
    of the behavior of plates and shells in fluids, and the effect
    of creep of the material is considered. A number of papers
    discuss problems associated with the development of effective
    mathematical methods for solving problems in the theory of shells.
    Some of the reports propose algorithms for the solution of problems
    with the aid of electronic computers. A total of one hundred
    reports and notes were presented and discussed during the con-
    ference. The reports are arranged alphabetically (Russian) by
    the author's name.

Card 2/14

Transactions of the Conference (Cont.)   SOV/6206

Card 5/14

AUTHORS: Gavelya,S.P., Kuzemko, A.M.

TITLE: The application of regular integral equations to some
problems of the theory of flat shells

PERIODOCAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 67,
abstract 7B324. ("Zb. robit aspirantiv Mekhan.-matem. ta
fiz. fak. L'vivs'k. un-t", 1961, no. 1, 3-10)

TEXT: The authors consider the system of differential equations for the
equilibrium of flat elastic shells. The authors use known results for
the Lamé system and for the biharmonic equation and construct the Green
function for the principal parts of the differential operators of the
system. With the aid of this Green function the problem is reduced to a
regular system of Fredholm integral equations of second kind. It is
pointed out that this system is unrestrictedly solvable, if the shell is
sufficiently weakly curved. As an example the authors consider a problem
with rigid-flexible fixing.
Abstracter's note : Complet translation.]

Card 1/1

KUZEMKO, T.,

Convenient accounting blank. Obshchestv. pit. no. 8:38-39 Ag '60.
(MIRA 14:4)

1. Starshiy bukhgalter Restorana, No. 3 "Yuzhnyy" Leninskogo
tresta stolovykh Khar'kova.
(Kharkov--Restaurants, lunchrooms, etc.--Accounting)

KUZEMKO, V.N.; LOKERMAN, A.A.

    Characteristics of the fracture tectonics of the complex-metal
    belt in eastern Transbaikalia. Geol.sbor. [Lvov] no.9:114-113
    '65.   (MIRA 18:12)

GORODKOV, B.N., professor; KUZENEVA, O.I.; ORLOVA, N.I.; POYARKOVA, A.I.;
SELIVANOVA-GORODKOVA, Ye.A.; ORLANOV, Ye.O.; SHLYAKOVA, Ye.V.;
GOLOVNIN, M.I., redaktor; KROL, D.M., tekhnicheskiy redaktor

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva,
Izd-vo Akad. nauk SSSR, No.1. 1953 254 p., maps. No.2. 1954.
238 p., maps.   (MLRA 8:7)

1. Polyarno-al'piyskiy botanicheskiy sad.
     (Murmansk Province—Botany)

KUZENEVA, O.I.; CHERNOV, Ye.G.

Description of the family Cyperaceae, table for indentifying genera
of the Cyperaceae family, and the genus Carex. Genera: Eriophorum,
Trichophorum, Scirpus, Bolbbschoemus, Schoenoplectus, Blysmus, Eleo-
charis, Schoemus, Rhyncospora, Kobresia. Flora Murm.obl. no.2:11-142
'54.   (MLRA 7:10)
    (Murmansk Province--Sedges)   (Sedges--Murmansk Province)

AVRORIN, N.A.; KUZENEVA, O.I.; ORLOVA, N.I.; PIS'YAUKOVA, V.V.; POYARKOVA,
    A.I.; ZEMENOVA-TYAN-SHANSKAYA, N.Z.; CHERNOV, Ye.O.; SHLYAKOV, R.N.;
    TVERITINOVA, K.S., tekhnicheskiy redaktor

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskve, Izd-vo
Akademii nauk SSSR. No.3. 1956. 449 p.   (MLRA 9:11)
        (Murmansk Province--Botany)

AVRORIN, N.A.; KUZENEVA, O.I.; ORLOVA, N.I.; POYARKOVA, A.I.; SEMENOVA-
    TYAN-SHANSKAYA, N.Z.; CHERNOV, Ye.G.; SHLYAKOV, R.N.; TUZEPCHUK,
    S.V. [deceased]; ARONS, R.A., tekhn.red.

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva.
No.4. 1959. 393 p.   (MIRA 12:8)

1. Akademiya nauk SSSR. Kol'skiy filial, Kirovsk.
        (Murmansk Province--Dicotyledons)

KUZENEVA, O.I.

Flora of Murmansk Province.   Bot. zhur. 48 no.8:1215-1216 Ag '63.
(MIRA 16:10)

1. Polyarno-al'piynkiy botanicheskiy and Kol'skogo filiala imeni
S.M. Kirova AN SSSR, Kirovak Murmanskoy oblasti.
(Murmansk Province—Botany)

KUZENKO, H.V

Experiments were carried out by means of the 265 MeV-synchrotron of the Physical Institute "P.N.LEBEDEV" of the Academy of Science in the USSR. For the purpose of reducing the photon load of individual counters work was carried out in such a manner that the duration of the impulses of the synchrotron amounted to 1000 μ sec (instead of the usual 30 μ sec). The spectrum of the electrons impinging upon the target of the synchrotron was nearly triangular with the base of 75 to 119 MeV and with the maximum at 97 MeV. The elastic γ p-scattering at these energies was investigated by registration of the scattered γ -quanta solely with the help of telescopes which consist of scintillation counters.   An attached drawing illustrates this experimental order. Observation was carried out with two telescopes which were fitted simultaneously under the angles 90 and 90°, 45 and 90°, 45 and 135° (in the laboratory system). Each telescope consisted of four liquid-scintillation-counters with a solution of terphenyl in toluene. The recording threshold for the γ-quanta in the case of both telescopes amounted to ~ 40 MeV. The light pulses emitted from the scintillators were recorded by means of photoelectronic multipliers

Dokl.Akad.Nauk <u>111</u>,fasc.5,988-991 (1956)   CARD 2 / 2   PA - 1939

FEU - 19 - II. Liquid hydrogen was used in a target vessel of penopolystirol. The determination of the effectively acting volume of the target is described.

Experimental results are shown in form of a graph. The cross section for the angle 90° amounts to $d\sigma/d\Omega$ - $(1,35 \pm 0,13).10^{-32}$ cm^2/sterad and agrees well with the results obtained by C.OXLEY and V.TELEGDI, Phys.Rev.<u>100</u>,435 (1955). However, in contrast to this work, the authors obtained a predominating scattering of photons into the rear hemisphere (for 45° - $d\sigma/d$ -

- $(1,40 \pm 0,17).10^{-32}$ cm^2/sterad; for 135°- $(2,25 \pm 0,45).10^{-32}$ cm^2/sterad). This result has the following significance: Already at energies of γ quanta of up to 120 MeV the analysis of the COMPTON effect on protons, which is based only on the value of the anomalous statistical magnetic moment and results in a certain predominance of scattering in to the front hemisphere, is found to be insufficient. Apparently the interference of the scattering of γ -quanta on the proton as a punctiform source and on the nucleon-isobar becomes noticeable already at such energies, viz. because of the existence of an asymmetric nulceon cloud a dynamic magnetic moment of the nucleons occurs.

INSTITUTION: Physical Institute "P.N.LEBEDEV" of the Academy of Science in the
            USSR

KUZENKO, G.M.

We need a precise plan for training locomotive crews. Elek. i
topl. tiaga 3 no.4:26 Ap '59.   (MIRA 12:7)

1.Zaveduyushchiy uchebnoy chast'yu Krasnolimanskoy tekhnicheskoy
shkoly mashinistov.
    (Locomotive engineers--Education)

VARLAKHOVSKIY, A.B.; DYATLOV, V.V.; AUZ..., ..., ..., G...;
SMIRLOV, A.G.; K.SOROV, A.C., red.

[Elements of contactless remote control systems] Elementy
beskontaktnykh sistem telemekhaniki. Moskva, Tsentr.
nauchno-tekhn. informatsii Gos.proizv.stvennogo k..ta po
gazovoi promyshl. SSSR, 1963. 16 p.   (..A 17:11)

A

L 9737-66   EWT(m)/EWF(t)/EWP(b)   LJP(c)   JD/JG

ACC NR: AP5027169   SOURCE CODE: UR/0076/65/039/010/2359/2364

AUTHOR: Bogdanov, G.A.; Yurchenko, G.K.; Kuzenko, L.A.

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut)

TITLE: Study of sodium peroxooxyvanadates

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 10, 1965, 2359-2374

TOPIC TAGS: vanadate, peroxide, vanadium compound, sodium compound

ABSTRACT: The methods of preparation of sodium peroxooxyvanadates, which are inter-
mediates in the catalysis of hydrogen peroxide by sodium vanadate, were elaborated, and
the compounds were isolated. Their composition was determined to be $NaVO_4$, $NaVO_4 \cdot H_2O_2$, and $NaVO_4 \cdot 3H_2O_2$; the latter two have not been described before. $NaVO_4$ is a true
peroxide with a fairly stable inner coordination sphere. The decomposition of sodium mon-
operoxovanadate in solution is homogeneous and occurs via an inner-sphere recombination
without being accompanied by radical-chain processes. The dependence of the decomposition
rate on the concentration obeys an equation that is close to first-order. The molar con-
ductance of aqueous $NaVO_4$ solutions changes anomalously with dilution; Ostwald's and

Card 1/2   UDC 541.128 + 541.124/.128

L 9737-66
ACC NR: AP5027169

Werner's laws do not apply in this case.   At room temperature, dry $NaVO_4$ is stable and decomposes with a vigorous evolution of heat at temperatures above 80C.   The process of thermal decomposition of $NaVO_4$ essentially obeys the topochemical laws and occurs at the interface.   The equilibrium constants, free energy changes, and entropy changes of the decomposition of $NaVO_4$ in water were calculated for several temperatures.   Orig. art. has: 5 figures and 2 tables.

SUB CODE: 07 / SUBM DATE: 04Apr64 / ORIG REF:005 / OTH REF: 002

Card 2/2

BOGDANOV, G.A.; YURCHENKO, G.K.; KUZINKO, L.A. (Moscow)

    Theory of catalysis in solution. Part 1. Zhur. fiz. khim. 38
    no.5:1229-1232 My '64.   (MIRA 18:12)

BOGDANOV, G.A., KURDENKO, T.A.

[illegible text] ...GF0-2364

(MIRA 18:12)

1. Moskovskiy tekstil'nyy institut. Submitted April 4, 1964.

KIZENKO, M.Ya., inzh. (Khar'kov)

Planning the work of the train dispatching staff in a section.
Zhel.dor.transp. 47 no.4:32-34 Ap '65.

(MIRA 18:6)

KUZENKO, V.M.; GENGALO, V.A.

Distributing expenditures in the exploitation of gas condensate fields. Neft. i gaz. prom. no.1:30-32 Ja-Mr '64.

(MIRA 18:2)

KUZENKO, Ye.

Factors affecting the yield of endocrine anzymes and special raw materials. Mias. ind. SSSR 34 no.4:11-15 '63.

(MIRA 16:10)

1. Moskovskiy ordena Lenina mesnoy kombinat.

Utilization of animal intestinal matter for production of a leather-softening agent. E. Kuzenko, L. Pozharskaya, and M. Slivkova. *Myasnaya i Molochnaya Prom.* 1946, No. 3, 32-6.—The recipe for the use of pancreatic ext. for leather softening can be economically altered by substitution of as much as 90% (by wt.) of the intestinal-wall ext. Complete substitution gives a product of very low enzymic activity. The prepn. of macerated pancreas and intestine can be stored satisfactorily with 20% NaCl at room temp.
G. M. Kosolapoff

BELEN'KIY, N., akademik; KUZENKO, Ya.; POZHARSKAYA, L., kandidat biologi-
cheskikh nauk; RYNDINA, V.

Separating blood plasma in medium and small meat combines. Mias.
ind.SSSR. 27 no.2:10-11 '56.   (MLRA 9:8)
          (BLOOD PLASMA) (SEPARATORS (MACHINERY))

BELEN'KIY, N.G., POZHARISKAYA, L.S., KUZENKO, Ye.V., VOLKOVA, A.G.

Improvement in obtaining sterile blood serum for use in medicinals.
Med.prom. 12 no.8:18-22 Ag '58   (MIRA 11:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy
promyshlennsti.
            (SERUM)

BELEN'KIY, N.G., akademik; POZHARISKAYA, L.S., kand.biologicheskikh nauk;
    VOLKOVA, A.G., mladshiy nauchnyy sotrudnik; KUZENKO, Ye.V., inzh.

    Properties of the blood plasma and serum of cattle. Trudy VNIIMP
    no.9:104-108 '59.   (MIRA 13:8)
           (Cattle)   (Blood analysis and chemistry)

KUZEŃKO, Ye.; SINTSOVA, M.

Autolysis method for obtaining gastric juices on a production line.
Mias.ind. SSSR 33 no.3:50-51 '62.   (MIRA 15:7)

1. Moskovskiy myasokombinat.
        (Meat industry—By-products) (Gastric juice)

OL'SHANOVA, K., prof.; POTAPOVA, M., kand.khim.nauk; KORNIYENKO, A., kand.
tekhn.nauk; KUZENKO, Ye.; SHIBANOVA, P.

Ion exchange resins in the production of protein hydrolyzate.
Mias.ind.SSSR 35 no.1:16-20 '64.   (MIRA 17:4)

1. Moskovskiy technologicheskiy institut myasnoy i molochnoy
promyshlennosti (for Korniyenko). 2. Moskovskiy ordena Lenina
myasokombinat (for Shibanova).

L 29597-66   EWT(1)/FCC   GW

ACC NR: AT6013746   SOURCE CODE: UR/2789/65/000/C67/0017/0023

AUTHOR: Kuzenkov, A. F.

ORG: none

TITLE: A method for measuring radioactivity in the free atmosphere

SOURCE: Tsentral'naya aerologicheskaya observatoriya, no. 67, 1965. Metody i rezul'-taty aerologicheskikh nablyudeniy (Methods and results of aerological observations), 17-23

TOPIC TAGS: atmospheric radioactivity, radiosonde, radiation instrument

ABSTRACT: A radiosonde method is proposed for measuring atmospheric radioactivity. The equipment used for this measurement is based on the RKZ-1 radio unit. The radiation indicator consists of three STS-6 self-quenching counters connected in parallel. The outer surface of the radiation receiver is painted black to amplify the absorbed short-wave solar radiation. The power supply is a GB-400 battery. A schematic diagram of the device is given. The tape output of the device is the graphical representation of a function of the form

$$\bar{n}(t) = \frac{1}{\tau} \int_{t}^{t+\tau} n(t)\, dt,$$

Card 1/2

L 29597-66

ACC NR: AT6013746

where $n(t)$ is the number of discharges recorded by the radiation receiver; $\bar{n}(t)$ is the average count rate in time τ. The operation of the equipment is briefly described and statistical and instrument errors are analyzed. The sensitivity of the method is determined for measurements in regions of high radioactivity. If the sensitivity of the device is defined as its capacity to measure the number of decays of radioactivity products $n=n_b/10$ where n_b is the intensity of the background count, then the threshold of sensitivity at an altitude of 20 km where n_b is a maximum (220 pulses per second) is $7.3 \cdot 10^2$ decays/m^3 or $1.9 \cdot 10^{-8}$ Curie/m^3. The sensitivity of the instrument increases with altitude since the free path of the particles increases more quickly than the intensity of the background count. The sensitivity close to the surface of the earth is of the order of $4 \cdot 10^{-8}$ Curie/m^3. These values of sensitivity are somewhat underestimated since the accumulation of γ-quanta was not considered and only the photon component of radioactivity was accounted for. The device was tested at an altitude of 20 km under natural conditions. It is shown that the instrument gives repeatable results. Orig. art. has: 3 figures, 2 formulas.

SUB CODE: 08/   ORIG REF: 004/   OTH REF: 001

Card 2/2

KUZENKOV, A.F.; POTEMKIN, I.G.

Some results of aerological observations by means of radar
aboard the ship "IU.M.Shokal'skii. Meteor. i gidrol. nc.7:
46-49 Jl '62.   (MIRA 15:6)
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KUZEHKOV, A.F.

Method of measuring radioactive radiation in the free atmosphere.
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(MIRA 19:1)

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123-127 '64.   (MIRA 17:9)

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Bulldozer for removing the sphagnum moss layer. Torf.prom.
32 no.8:28 '55.   (MLRA 9:4)

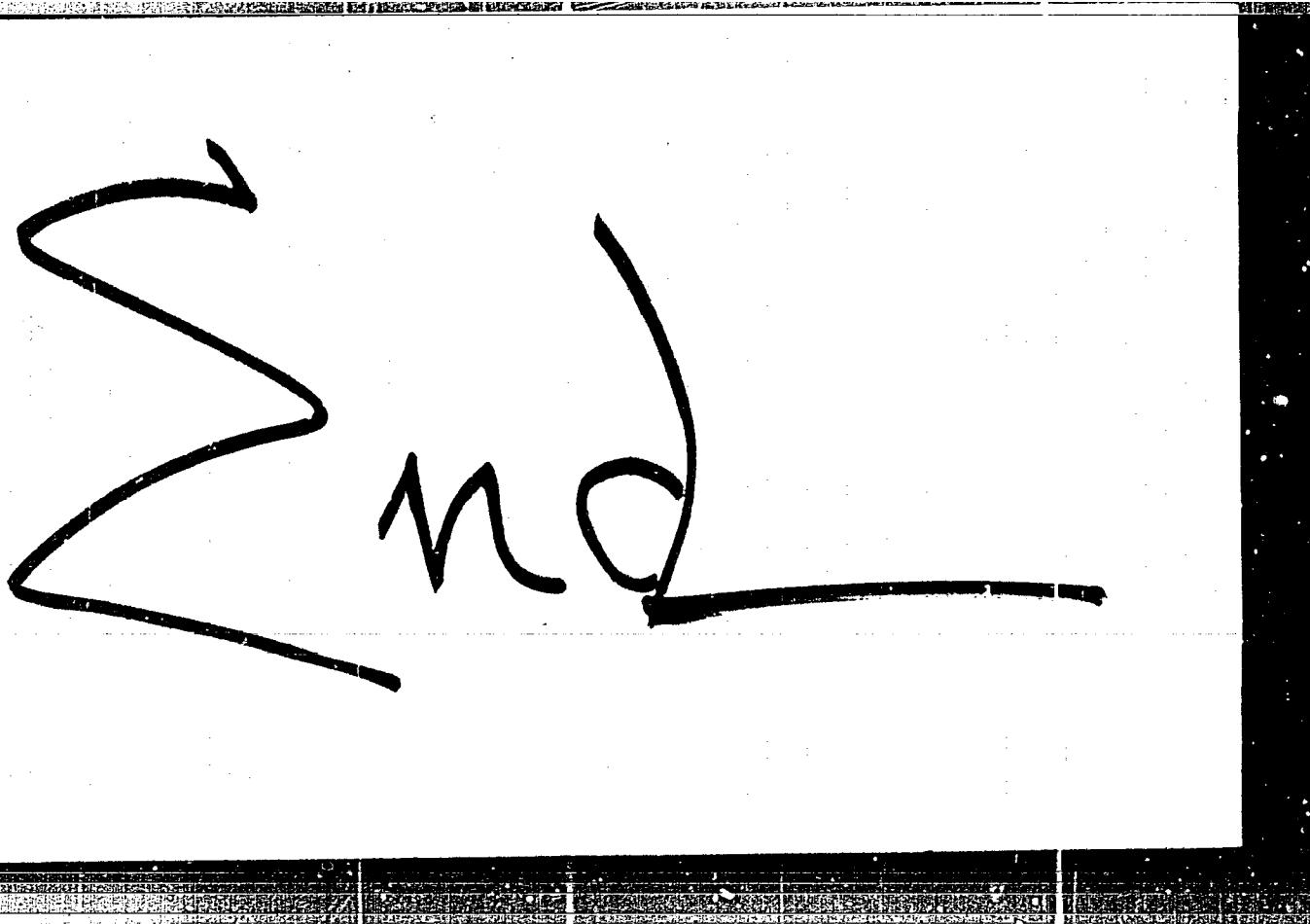1.Popovskoye torfopredpriyatiye.
              (Peat machinery)

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Kuskov, L.

to

KUZENKOV, F.F.

End